

Amendments to the Claims

Please cancel Claims 1-18 and 38-41. Please amend Claim 45. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1.-18. Canceled

19. (Previously presented) A method for communication of data between a plurality of remote transceivers and a network based on data flows over multiple types of communication links disposed therebetween, the method comprising the steps of:
- establishing a first set of wireless communication links between the plurality of remote transceivers and a hub for transmission of data messages from terminal equipment coupled to the plurality of remote transceivers;
 - transmitting the data messages from at least one of the plurality of remote transceivers to the hub;
 - receiving the data messages at the hub;
 - routing data messages received by the hub over a hardwired link to a subscriber unit;
 - aggregating data messages from multiple individual logical data flows generated by computers coupled to the plurality of remote transceivers;
 - establishing a second wireless communication link between the subscriber unit and base station using multiple shared radio channels, whereby the aggregated data messages from multiple logical data flows are reformatted to include an extra physical layer for transmission of data on said second wireless communication link;
 - stripping the extra physical layer from the data messages received over the second wireless communication link at the base station and reconstructing data messages to an original form; and
 - routing the data messages in the original form to a network in communication with the base station.

20. (Original) A method as described in claim 19 further comprising the step of:
making available a plurality of subchannels within the second wireless communication link for establishing data flows, wherein a data transfer rate on each subchannel is typically less than the nominal data transfer rate of any data flow.
21. (Original) A method as described in claim 20 further comprising the step of:
allocating available subchannels on an as-needed basis over the second wireless communication link to provide data transfers over two or more subchannels for higher speed transfers of at least one data flow between a remote transceiver and the network.
22. (Original) A method as described in claim 19 wherein the hub is based on an IEEE 802.11 standard.
23. (Original) A method as described in claim 19 wherein the hardwired communication link between the hub and the access unit is based on an IEEE 802.3 standard.
24. (Original) A method as described in claim 19 wherein the second wireless communication link supports multiple individual high speed data transfers for each of the remote transceivers.
25. (Original) A method as described in claim 19 wherein the first wireless communication link is also a long-range wireless communication link.
26. (Original) A method as described in claim 19 wherein the second wireless communication link is also a high speed wireless communication link.
27. (Original) A method as described in claim 19 wherein the remote transceivers are operably linked to remote computer terminals in communication with the network.

28. (Original) A method as described in claim 19 wherein communication between the hub and the remote transceiver is based on spread spectrum.
29. (Original) A method as described in claim 19 wherein the first wireless communication link is FHSS around 2.4 Gigahertz and each remote transceiver communicates with the hub over a unique channel.
30. (Original) A method as described in claim 19 wherein the first wireless communication link is DSSS around 2.4 Gigahertz and each remote transceiver communicates with the hub over a unique channel.
31. (Original) A method as described in claim 19 wherein the first wireless communication link is based on infrared.
32. (Original) A method as described in claim 19 wherein the network is an Internet.
33. (Original) A method as described in claim 19 wherein the at least one wired communication link includes at least one Ethernet link.
34. (Original) A method as described in claim 19 wherein the second type of wireless communication link is based on a radio frequency near 1.9 Gigahertz.
35. (Original) A method as described in claim 19 wherein the second type of wireless communication link has a cellular range of greater than 1 mile.
36. (Original) A method as described in claim 19 wherein communication between the plurality of users and the hub is based on a wireless local area network (WLAN).

37. (Original) A method as described in claim 19 wherein communication of data messages to at least one of the plurality of transceivers is established in an inverse corresponding order.
- 38.-41. Canceled
42. (Previously Presented) A method as in claim 19, wherein the hardwired link is part of a contention network.
43. (Previously Presented) A method as in claim 19, wherein peer-to-peer connectivity is supported between servers coupled to the network and computers coupled to the remote transceivers.
44. (Previously Presented) A method as in claim 19 further comprising:
 at the base station, receiving aggregated data flow information transmitted over the subscription-based wireless link; and
 processing the aggregated data flow information into data messages; and
 routing the data messages through the network.
45. (Currently amended) A method as in claim [[1]] 19, wherein a combination of the hub and subscriber unit is portable.